

Park emergency call 860-424-3333

SLEEPING GIANT CHESTNUT PLANTATION

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The first chestnuts planted on this site, other than native trees, were set out by Dr. Arthur H. Graves in March of 1930. At that time Dr. Graves was a curator at the Brooklyn Botanic Garden, and this was his family's land. He received those first Asian chestnuts from the USDA in Beltsville, Maryland.

About 1939 Dr. Donald F. Jones, Chief of the Genetics Department at The Connecticut Agricultural Experiment Station, became interested in the chestnut breeding program, and participation by the Experiment Station in the project was begun.

In 1949, Dr. Graves sold 8.3 acres of land to the Sleeping Giant Park Association, reserving its use for The Connecticut Agricultural Experiment Station for tree breeding. Then in 1950 the Park Association gave five pieces of land (including the 8.3 acres) to the State for Sleeping Giant State Park, reserving the use of the 8.3 acres for the Experiment Station. Since that time, the chestnut project has been administered by The Experiment Station with the cooperation of the Sleeping Giant State Park Rangers. Dr. Graves actively continued his work with chestnuts until his death in December, 1963.

Important trees are highlighted in **YELLOW**, ortets are highlighted in **GREEN**

SOUTH LOT

East side of Chestnut Lane

Row B is nearest Chestnut Lane, rows run from north to south

RBT5

Castanea **DEAD 2019**

bark graft V205 of tree from **Scientists' Cliffs**, MD, on land of F. Gravett, stock Japanese, graft 5-V-62 [peroxidase AA+]

- RBT10 *Castanea crenata* (X *sativa* ?) X *dentata*
 Cross #238-31 1B113 (called the 'Smith hybrid'), female parent was R. S. Smith, Oyster Bay, Long Island, New York, purchased as 'Japanese Giant' from a nursery near Rochester, NY, Graves said this was "evidently of hybrid nature," it was 35 years old in 1929, one foot dbh, and had only one nut per bur, male parent was a tree in Washington, DC, F.P. 551 (*dentata* on Beall's land) fuzzy veins top and bottom, very few stellate hairs [SLA peroxidase AB]
- RBT11 'Eaton' seedling planted 1973
- RBT13 complex hybrid planted 1958
 Cross #24-55, 'Sleeping Giant' X 'Toumey'
 [C X (JE*A)] X [J X (JE*A)]
- RBT16 large leaf, stellate hairs, unknown
- R1T3 *Castanea mollissima*
 USDA #70315, hardy trees from northeastern China, seed purchased 1926 by J.H. Reisner, Nanking University, planted 1930 [peroxidase AB]
- R1T6,7 unknown
- R1T9 'Eaton' seedling
- R1T15 *Castanea mollissima*
 'Mahogany' USDA #70315, hardy trees from northeastern China, seed purchased 1926 by J.H. Reisner, Nanking University, planted 1930 [Santamour peroxidase AB]
- R1aT11 complex hybrid cross #17-36, planted 1937
 graft of 'S8' X Smith hybrid, (*pumila**J) X (JE*A), few stellate hairs, fuzzy buds, green twigs, hairs top mid-vein
- R2T1-10 complex hybrid, HH ('Little Giant?') X 'Eaton'
 Cross #1-70
- R2T11 *Castanea mollissima* X *sequinii*
 Cross #17-34, female parent was R1T12, USDA #70315, male parent R3T8 [peroxidase AB]
- R2T13 "Eaton" seedling
- R2T16 *Castanea sequinii* **DEAD**
 USDA #70317 seed 1926, seedling planted 1930, F.A. McClure #700, Chiuhywashaan, Anhwei, called "Mo lut tsz" [Santamour peroxidase BB]
- R3T1-7 complex hybrid, HH ('Little Giant?') X 'Eaton'
 cross #1-70
- R3T9 complex hybrid, HH ('Little Giant?') X 'Eaton' cross #1-70
- R3T11 Earl Douglas hybrid
- R3T15 cross #13-55, Denmark #4 X (*mollissima* R1T12 X *sequini*, cross #17A-34)
- R3T16 *Castanea mollissima*
 from R. C. Ching, Lu-Shan Botanic Garden, Han-Po-Kou, Lu-Shan, Kiu Kiang, China, 4000 ft above sea level, had survived -15°F, planted 1935 [peroxidase AA]

- R4T3 *Castanea (crenata X sativa) X dentata*
graft spring 1948 of R4T10, '**Hammond-'86'** on *C. crenata* forest type (USDA 1930); R4T10 was cross #86-31, female parent was the east branch of P. Hammond, Syosset, Long Island, New York, estate of Bronson Winthrop, probably a hybrid of Japanese X European, a grafted tree with two leaders: one (east branch; peroxidase test in 1994: AB) with a single, and the other (west branch; broken off in Hurricane Gloria, 1985) with three nuts per bur, good blight resistance, male parent was a tree in Bell, MD, (FP#551). graft flowering, blighted, and inarched 1957 [SLA peroxidase AB]
- R4T5 *Castanea mollissima X dentata* **ONLY DIPLOID SPROUT ALIVE, TRIPLOID**, cross #86-34, female parent was SL R1T4 *mollissima* USDA #70315, male parent F.P. 551; tree listed as sterile in 1957 but a sprout had both male and female flowers 1988, and set filled nuts, leaves much smaller than triploid part which is **NOW DEAD**.
- R4T13 cross #13-55, Denmark #4 X (*mollissima* R1T12 X *seguini*, cross #17A-34)
- R5T3 *Castanea mollissima X [(crenata X sativa) X dentata]*
Cross #327B-37, SL R1T12 x SL RBT12
- R5T4 *Castanea mollissima* hybrids, Earl Douglas, NY 1974
- R5T6-9 *Castanea mollissima* hybrids, Earl Douglas, NY
- R5T10 complex hybrid, A (Rox.5) X C*JA, planted 1951
cross #46-48
- R5T13 *Castanea mollissima X [(crenata X sativa) X dentata]*
'Sleeping Giant' (=C2), #276A'-37, female parent was R1T12 *mollissima* USDA #70315, male parent was RBT12, Smith hybrid, cross 233A' 1931 (Oyster Bay, NY X FP#551, Washington, DC) [Santamore peroxidase BB]
- R6T2 'Hammond '86' open pollinated, 1941
- R6T5 *Castanea (pumila X crenata) X crenata*
graft #V222 in 1963 of R16T1 '**Essate-Jap'** (=C1) on *crenata*, this was R2T1, ['S8' of Van Fleet (*pumila X crenata*), grafted tree (?) or seedling planted 1930] crossed in 1934 with Japanese forest-type USDA #78626 seedling planted 1930
- R6T6 *Castanea crenata X [(crenata X sativa) X dentata]*
graft on *crenata*, 1957, of R59T39 '**Toumey'** (=C5), MJ X Smith hybrid, R8T6 X RBT12
- R6T11 *Castanea* sp
- R6T15 [(*Castanea crenata X C. pumila*) X *C. crenata*] X *C. dentata*(?)
cross #4-55 'S8'*J X A (suspect!) (peroxidase AB)
- R6T16 'C9' X 'Clapper' cross #2-72
- R7T3 *Castanea* hybrid
graft #V119, 1957, of R3AT44 '**C-3'**
'S8' X 'MI', SL R2T1 X SL R8T7
- R7T6 *Castanea crenata X [(crenata X sativa) X dentata]*
graft on *crenata*, 1957, of R59T39 '**Toumey'** (=C5), 'MJ' X Smith hybrid (R8T6 X RBT12)

- R7T7 *Castanea crenata*
USDA #78626, seed 1929, wild tree #748, Oguriyama, Chitose
Mura, Naka, Tsugaru Gun, Amori Ken, Japan (Santamour
peroxidase BB
- R7T8 *Castanea* [*mollissima* X (*crenata* X *dentata*)] X
[(*mollissima* X *dentata*) X *dentata*]
`C-9' X `Clapper' cross #4-70, planted 1972, called '**Hamden**'
- R7T9 *Castanea crenata* X [(*crenata* X *sativa*)X *dentata*]
Cross #81-42, Folk WL R15T2 X 'Hammond '86', perox. BB
- R7T10 (*Castanea dentata* X S8) X *crenata* & *mollissima*
Cross #23-47, R8T9 X R1T7 & R1T6, male sterile, 25 chromosomes in nuts
(1958 data)
- R7T11 *Castanea crenata* X *dentata*
Cross #22-35, female parent SL R10T5 "Mammoth"; USDA #76873
(MJ), male parent "Clapper (F.P. 555) and No. Spring", male sterile
(peroxidase AB)
- R7T15 *Castanea* [*mollissima* X (*crenata* X *dentata*)] X
[(*mollissima* X *dentata*) X *dentata*]
`C-9' X `Clapper' cross #4-70, planted 1972
- R8T1 unknown
- R8T4 Unknown *C. crenata* [peroxidase BB]
- R8T11-15 *Castanea mollissima*
seed from Helen Foster Snow in 1972 Wen Chia Shih, Liu Yanghsien
in Hunan from trees planted by Mao Tse-tung in 1929
- R9T2 *Castanea mollissima*
USDA #78744, '**Tiger Paw**' FP 'MCH' collected by Peter Liu from
the Fa Hua Ssu Temple near Peiping, Hopei, China [peroxidase AB]
- R9T4 *Castanea* hybrid
graft of SL R5T13 '**Sleeping Giant**' (C2), 1956
- R10T9 POSSIBLY one of the original Mintern hybrids, *C. crenata* X *dentata*
since notes say there was a label that said "JA 19-33"
- R10T10 *Castanea dentata* X (*pumila* X *crenata*)
Long Island cross #25 (or #60A) -35, female parent from Half Hallow Hills,
Melville, LI, male parent probably SL R2T3, 'S8' of Van Fleet, grafted on
Japanese [peroxidase AB]
- R10T11 *Castanea mollissima* X *seguinii*
Cross #17B-34, female parent R1T12 USDA #70315, male parent
called "everbearing seguine"
- R10T12 *Castanea dentata* X *mollissima*
Long Island cross #58-35, very different morphology from R10T10, male parent
probably USDA #70315 from SL R1, male sterile, catkins form but don't open
[peroxidase AB]
- R11T9 'S8' X unknown, 1937
- R11T10 unknown chinquapin, called "C-55" in 1958
- R11T14 *Castanea mollissima*
Hobson, Jasper, GA, PI #36666 o.p., seed 1938, planted 1943

- R12T9 *Castanea mollissima*
Hobson, Jasper, GA, PI #36666 o.p., seed 1938, planted 1943
- R12T10 *Castanea crenata* X (*crenata* X *dentata*)
Cross #48-42, Japanese from Mr. Folk, WL R15T2 X Mintern SL R2T4
- R13T12 *Castanea mollissima* X *dentata*
Cross #263A-37, SL R1T2 X Pennsylvania & North Spring

Chinkapin Corner (southeast corner of the South Lot)

- R-alphaT2 *Castanea ozarkensis*, Garfield, Centon Co., Arkansas, planted 1936
- R-betaT1 *Castanea pumila*, G. Miller, Carrollton, OH, planted 2003
- R-betaT2 *Castanea alnifolia*
- R-gammaT3-4 *Castanea ozarkensis*, Garfield, Centon Co., Arkansas, planted 1936
- R-deltaT1 *Castanea ozarkensis*, Garfield, Centon Co., Arkansas, planted 1936
- R-epsilonT3 *Castanea ozarkensis*, Garfield, Centon Co., Arkansas, planted 1936
- R-etaT4 *Castanea ozarkensis*, Garfield, Centon Co., Arkansas, planted 1936

WEST LOT

West side of Chestnut Lane, North end of property
Rows run from East to West, with the first row at the North end

- R13T2 *Castanea crenata* o.p.
nuts from H.N. Folk, Brielle, NJ, 1930 parents purchased as 'Japanese Giant'
from a nursery near Rochester, NY, prize nuts, NNGA
- R13T4 *Castanea (pumila X crenata) X crenata*
Cross #5C-34 which was SL R2T1, [S8 of Van Fleet, *pumila* X *crenata*, grafted
on Japanese] crossed with a Japanese forest-type USDA #78626 in SL R6T11
- R13T6 *Castanea crenata* o.p.
nuts from H.N. Folk, Brielle, NJ, 1930 parents purchased as 'Japanese Giant'
from a nursery near Rochester, NY [peroxidase BB]
- R13AT1 *Castanea mollissima*
nut from J.B. Gable, Stewartstown, PA 1938 [Santamour perox. BB]
- R13AT8 *Castanea mollissima*
nut from J.B. Gable, Stewartstown, PA 1938
- R14T3 *Castanea mollissima* X [*crenata sativa*] X *dentata*
Cross #338C-37, SL R1T4 X Hammond '86 (SL R4T10)
- R14T8 *Castanea crenata* o.p.
nut from H.N. Folk, Brielle, NJ, 1930 [Santamour peroxidase BB]
- R14AT1 *Castanea crenata* x *dentata* #95-34, SL R1T7 x American (Washington)
FP 551
- R15T5-7,10 *Castanea mollissima*
selected Chinese

- R16T1 *Castanea (pumila X crenata) X crenata*
'**Essate-Jap**' (=C1), cross #9-34 which was SL R2T1, ['S8' of Van Fleet, *pumila X crenata*, o.p.] crossed with a Japanese forest-type USDA #78626 in SL R6T11, dense stellate hairs [Santamour peroxidase BB]
- R16T8-9 *Castanea mollissima*
selected Chinese
- R16T11 *Castanea pumila X asheii*
Cross #14-61, R-epsilonT4 X West Spring
- R17T5-6 *Castanea mollissima*
selected Chinese [Santamour peroxidase AB, BB]
- R17T9-10 *Castanea pumila X alnifolia*
Cross #15-61, R-epsilonT4 X R-betaT3
- R17T11 *Castanea pumila X seguinii*
Cross #12-61, R-deltaT4 X SL R3T8, three nuts/bur, perox. AB
- R18T4 *Castanea sativa X crenata*
Cross #17-51; Villa Colombo X GH-4 pollen (USDA)
- R18T6 *Castanea mollissima X [(crenata X sativa) X dentata]*
Cross #32-51, SL R1T15 (Mahogany) X SL R4T4 (Hammond '86 graft)
- R20T11 *Castanea hybrid*
Cross #18-51, J*JA X J ('M38')
- R20T12 *Castanea dentata X mollissima*
Cross #1-89, American (farm) R1T7 X Chinese WL R37T7
- R20T14-19 *Castanea hybrid*
Cross #67-61, AC*J X C
- R21T7 *Castanea [(crenata X sativa) X dentata] X mollissima*
Cross #50-51, Hammond '86 grafts at R3T3 and R4T4 X 'Mahogany' at R1T15
- R23T1 *Castanea hybrid*
Cross #63-60, R13AT7 ("Denmark") X American R17T7 from J.J. McKenna, PA 1938, planted 1960 [Santamour peroxidase AB]
- R23T10?
- R23T14-17 *Castanea ozarkensis X mollissima*
Cross #18-61, REpT3 X Burbank's 'Miracle' R8T7 graft, planted 1965
- R23T19 *Castanea dentata X seguinii*
Cross #37-61, female parent was American, Roxbury, CT #5, male parent was SL R3T8
- R24T9??
- R25T5 *Castanea alnifolia X ozarkensis*
Cross #55-60, R-bettaT3 X R-alphaT2
- R25T9??
- R25T14-17 *Castanea ozarkensis X mollissima*
Cross #18-61, REpT3 X Burbank's 'Miracle' R8T7 graft, one nut per bur [Santamour peroxidase AB, AA, x, x]
- R25T10 S8*J X S8*J #2-51 multiple stems
- R26T8 *Castanea hybrid*
Cross #77-51, C*Seg X C*Seg, SL R2T11 X SL R10T11

- R26T12 *Castanea* hybrid
Cross #77-51, C*Seg X C*Seg, SL R2T11 X SL R10T11
- R27T14 *Castanea mollissima*
Cross #121-60, R1T9 selfed
- R27T15-16 *Castanea ozarkensis* X *alnifolia*
Cross #21-60, R-gammaT3 X R-betaT3 planted 1965
- R27T17-18 *Castanea* hybrid
Cross #62-60, R13AT3 "Lindholm" (Denmark) X Roxbury #1
- R27T19 *Castanea dentata* X *pumila*
Cross #41-61, Roxbury #1 X R-epsilonT4
- R28T7 *Castanea mollissima* X [(*crenata* X *sativa*) X *dentata*]
graft V57 of R5T13 `Sleeping Giant' (=C2), 1953
- R29T1 *Castanea* hybrid
Cross #87-60, E(?) X J
- R29T3 *Castanea* hybrid
Graft V59 X J XJ*A
- R29T5 *Castanea* hybrid
Cross #15-53 of (*crenata* X *dentata*) X *mollissima*
- R29T7 *Castanea* hybrid
Graft V56 of C5
- R29T9 *Castanea* hybrid
Cross #63-60, R13AT7 "Lindholm" (Denmark) X R17T7 (*ashei*)
- R29T11 unknown *mollissima*
[Santamour peroxidase AA]
- R29T14 *Castanea ozarkensis* X *C. seguinii*
Cross #23-60, R-alphaT2 X R3T8 [Santamour peroxidase AB]
- R29T16 *Castanea henryi* X *ozarkensis*
Cross #4-60, R32T1 X R-gammaT3 [Santamour peroxidase AB]
- R29T17 *Castanea ozarkensis* X (*crenata* X *sativa*)
Cross #37-60, R-gammaT3 X M82 (graft V84) Solignat says latter
"not vigorous or blight resistant, large nuts, flavor not very sweet"
[Santamour peroxidase AB]
- R29T19 *Castanea dentata* X *seguinii*
Cross #47-60, Roxbury #3 X R3T8
- R30T9 & 11 *Castanea ozarkensis* X *dentata*
Cross #35-60, R-gammaT3 X Roxbury #1 nuts one or two per bur,
and one per bur
- R30T13-14 *Castanea dentata* X *ozarkensis*
Cross #67-60, Roxbury #1 X R-gammaT3 nuts one or two per bur,
and one, two, or three per bur [Santamour peroxidase AA, x]
- R30T15-16 *Castanea dentata* X *ashei*
Cross #68-60, Roxbury #1 X West Spring, nuts one per bur and
three per bur [Santamour peroxidase AA, AA]

- R30T17-(18) *Castanea ozarkensis* X *henryi*
 Cross #5-60, R-gammaT3 X R32T1 [Santamour peroxidase AB, BB]
 lower leaf few long simple hairs on all veins, glands, appressed stellate hairs
 between veins, top leaf few long simple hairs on veins
- R30T19 *Castanea mollissima*
 Mahogany at R1T15, selfed, #122-60

WEST LOT

Rows run from South to North with the first row on the East side of plot

FIRST TREE ON RIGHT AT TOP OF NORTH PATH

- R32T1 *Castanea henryi*
 USDA #104058 (FP #HE), Hsiaohsing, Anhwei Prov, planted 1935
 [Santamour peroxidase AB, SLA peroxidase BB]
- R32T4 *Castanea ozarkensis* X *henryi*(?)
 Cross #2-58, R_γT3 X Graves tree in Wallingford
- R32T6 *Castanea mollissima*
 FP 530, from Tientsin, purchased in a San Francisco market, down
 in hurricane Gloria 1985
- R33T3 *Castanea* hybrid
 graft of J X J*A, Cross #48-55, New Jersey tree X Hammond '86
- R34T1 *Castanea crenata*
 stump sprouts of unknown Japanese
- R34T2 unknown *Castanea* [peroxidase AB]
- R34T4 *Castanea* hybrid
 Cross #18-55, CA x J(prize nuts) #18-55
- R34T6 *Castanea crenata*
 USDA #104016, Japanese GO, Numakunai Eirinsho, Ippoimura,
 Iwate-gun, Iwate-ken, Japan, planted 1935 [peroxidase BB]
- R36T4 *Castanea* hybrid
 Cross #16-55, C X J*A, 'Mahogany' X 'Mintern'
- R37T4 & 7 *Castanea mollissima*
 USDA #104061, Chinese MAU, "Tall Chinese" `Lui An', Chekiang Province,
 China (28-32 deg. latitude), Peter Liu; seed lot reported to be 47 to the pound
 and with easy pellicle removal, planted 1935 [T7 is peroxidase AA]
- R38T2,3,4,6 *Castanea mollissima*
 USDA #104063, Chinese MAW "Large Chinese" `Kuei Lee',
 Hsin Teng, Chekiang Province, China, Peter Liu; seed lot reported
 to be 40 to the pound and with poor pellicle removal, planted 1935 [T3 is
 peroxidase BB]

WEST RED PINE LOT

West of the northern part of the West Lot

Rows run from South to North, first row on the East side of plot

- R2T1 *Castanea* hybrid
Cross #72-51, CJA X CJA
- R2T10 *Castanea* hybrid
Cross #72-51, CJA X CJA
- R3T2 & 8 *Castanea* hybrid
Cross #69-51, CJA X CJA
- R4T9 *C. (mollissima X dentata) X (crenata X dentata)*
Cross #66-51, R1T15 and R1T7, Americans both F.P. #551 "Beall's" from Bell, MD, this tree looks very Chinese!
- R5T11 *Castanea* hybrid
Cross #48-51, C X JA
- R6T2 *Castanea* hybrid
Cross #35-51, J X JA, 'M38' X J(prize nuts)*A [peroxidase AB]
- R6T10-11 *Castanea mollissima X sativa*
Cross #29-51, Chinese R1T12 X European, Villa Colombo
- R7T5 *Castanea* hybrid
Cross #18-55, CSeg x J (which was the "prize nuts" J)
- R8T10 *Castanea* sp. [root sprouts of grafted tree]
- R9T1 *Castanea crenata X dentata* NOT
graft of Litchfield R1T12 which is #65-39, SL R1T7 X American, spring lot perox. BB
- R10T2 *Castanea* hybrid
Cross #43-53, C X JA, 'Mahogany' X 'Minturn'
- R10T11(sprouts), 12, 13, 15 *Castanea (dentata X pumila*crenata) X mollissima*
Cross #40-53, SL R10T10 X R1T3, planted 1964 ?
- R11T1 *Castanea* hybrid
Cross #18-55, CSeg x J (which was the "prize nuts" J), tall tree
- R11T8 *Castanea* hybrid
Cross #63-52, CJA X CJA
- R11T16 *Castanea (dentata X pumila*crenata) X mollissima*
Cross #40-53, SL R10T10 X R1T3, planted 1964?, small sprouts 2003
- R13T1 *Castanea (mollissima X dentata) X dentata?*
Cross #37-53, (Chinese R1T15 X F.P. 551; cross #105B-34) at SL R2T8 X Bowman, Clinton Corners, NY, DNA tests in 2020 suggest that the latter was actually a *C. mollissima* hybrid. This is the tree called 'Graves', perox. AB
- R14T12 *Castanea* hybrid
Cross #18-55, CSeg x J (which was the "prize nuts" J)

WEST WEST LOT
West of the southern part of the West Lot
Rows run from East to West, with the first row on the South side of plot

R1T1	[SE corner of plot] <i>C. dentata</i> ☺ X <i>crenata</i> Cross #28-89, R3T17 X Cheshire `Parsons' Japanese'
R1T2	<i>C. dentata</i> ☺ X [(<i>crenata</i> X <i>sativa</i>) X <i>dentata</i>] Cross #16-89, R2T18 X SL RBT10 'Smith'
R1T4	<i>C. dentata</i> X [(<i>crenata</i> X <i>sativa</i>) X <i>dentata</i>] Cross #16-89, R2T18 X SL RBT10 'Smith'
R1T5 & 7	(<i>C. dentata</i> x [<i>pumila</i> * <i>crenata</i>]) X <i>dentata</i> Cross #42-89, SL R10T10 X Mich
R1T9-14	(<i>C. dentata</i> x <i>mollissima</i>) X <i>dentata</i> Cross #31-89, SL R10T12 X Mich
R2T2	<i>C. dentata</i> ☺ X <i>crenata</i> Cross #8-91, R4T12 X WL R34T6
R2T3-4	<i>C. dentata</i> X [(<i>crenata</i> X <i>sativa</i>) X <i>dentata</i>] Cross #16-89, R2T18 X SL RBT10 'Smith'
R2T6	(<i>C. dentata</i> x [<i>pumila</i> * <i>crenata</i>]) X <i>dentata</i> Cross #42-89, SL R10T10 X Mich
R2T8	<i>C. dentata</i> X <i>crenata</i> Cross #28-89, R3T17 X Cheshire `Parsons' Japanese'
R2T9,14	(<i>C. dentata</i> x <i>mollissima</i>) X <i>dentata</i> Cross #31-89, SL R10T12 X Mich
R2T15	<i>C. dentata</i> x <i>crenata</i> Cross #28-89, R3T17 X Cheshire `Parsons' Japanese'
R3T1	<i>C. dentata</i> X <i>crenata</i> Cross #29-89, R3T16 X Cheshire `Parsons' Japanese'
R3T6-7	(<i>C. dentata</i> x [<i>pumila</i> * <i>crenata</i>]) X <i>dentata</i> Cross #42-89, SL R10T10 X Mich
R3T9-10,14	(<i>C. dentata</i> x <i>mollissima</i>) X <i>dentata</i> Cross #31-89, SL R10T12 X Mich
R3T15	<i>C. dentata</i> X <i>crenata</i> Cross #28-89, R3T17 X Cheshire `Parsons' Japanese'
R4T3	<i>C. dentata</i> X [(<i>crenata</i> X <i>sativa</i>) X <i>dentata</i>] Cross #16-89, R2T18 X SL RBT10 'Smith'
R4T6-7	(<i>C. dentata</i> x [<i>pumila</i> * <i>crenata</i>]) X <i>dentata</i> Cross #42-89, SL R10T10 X Mich
R4T8	<i>C. dentata</i> X <i>crenata</i> Cross #28-89, R3T17 X Cheshire `Parsons' Japanese'
R4T9-14	(<i>C. dentata</i> x <i>mollissima</i>) X <i>dentata</i> Cross #31-89, SL R10T12 X Mich
R5T2	<i>C. dentata</i> X [(<i>crenata</i> X <i>sativa</i>) X <i>dentata</i>] Cross #16-89, R2T18 X SL RBT10 'Smith'

R5T6 *C. dentata* X *crenata*
Cross #17-91, R4T10 X WL R34T6

R5T9 *C. dentata* X *crenata*
Cross #17-91, R4T10 X WL R34T6

R5T10-12 (*C. dentata* x *mollissima*) X *dentata*
Cross #31-89, SL R10T12 X Mich

R6T4 *C. dentata* X [(*crenata* X *sativa*) X *dentata*]
Cross #16-89, R2T18 X SL RBT10 'Smith'

R6T5 *C. dentata* X *crenata*
Cross #24-89, R3T17 X Cheshire `Parsons' Japanese'

R6T6 (*C. dentata* x [*pumila***crenata*]) X *dentata*
Cross #42-89, SL R10T10 X Mich

R6T7 *C. dentata* X *crenata*
Cross #17-91, R4T10 X WL R34T6

R6T8 *C. dentata* X *crenata*
Cross #28-89, R3T17 X Cheshire `Parsons' Japanese'

R6T9 *C. dentata* X *crenata*
Cross #17-91, R4T10 X WL R34T6

R6T11 (*C. dentata* x *mollissima*) X *dentata*
Cross #31-89, SL R10T12 X Mich

SPRING LOT

North of the South Lot on the east side of Chestnut Lane
Rows run from South to North with the first row on the West side of plot

R1T1-70 *Castanea* hybrids, mostly `Sleeping Giant' op

R2T1-61 *Castanea* hybrids, mostly op

R3T1-49 *Castanea* hybrids, mostly op

R3T50, 52, 55, 56, 57 *Castanea crenata*
Cross #39-59, SL R7T7 X R7T5 (both USDA-PI #78626)

R3T61-65 *Castanea crenata* X *seguini*
Cross #41-59, R7T7 (USDA-PI # 78626) X R2T16 (USDA-PI #70317)

R3T66 *Castanea seguini* op

R4T16 *Castanea pumila* var *ashei*
"North Spring Chinquapin"

R4T18-21 *Castanea* op

R4T23-24 *Castanea mollissima* X *dentata*
Cross #45-59, SL R11T14 (Jasper, GA) X American (Bristol, CT) [F. Hebard reports T23 good resistance] -T23 is perox. AB

R4T26 *Castanea mollissima* X *dentata*
Cross #37-59, SL R11T4 (Jasper, GA, PI #36666 o.p.) X American (Roxbury, CT, #4 (west))

- R4T27 *Castanea dentata*
Roxbury, CT tree #4 (west) open pollinated
- R4T31 *Castanea mollissima* X *dentata*
Cross #36-59, 'Mahogany' SL R1T15 X American (Roxbury, CT, #4 (west))
[peroxidase AB]
- R4T33-34 *Castanea* op
- R4T37 & 39 *Castanea dentata*
American, Roxbury, CT, #1 (east) open pollinated [peroxidase AA]
- R4T43 unknown *Castanea*, very large, looks Japanese, perox. AB
- R4T49, 52, 54 *Castanea mollissima* X *dentata*
Cross #35-59, 'Mahogany' SL R1T15 X American (Roxbury, CT, #1 (east))
[peroxidase AA, AA, AB]
- R4T55-67 *Castanea* hybrids, mostly op
- R5T1-31 *Castanea* hybrids, mostly op
- R5T33 *Castanea henryi* X *ozarkensis*
Cross #3-59, WL R32T1 X RepsilonT3
- R5T38-52 *Castanea* hybrids, mostly op
- R5T61 & 67 *Castanea crenata* X root stock (?)
Cross #8-60, SL R7T7 X WL R15T6
- R6T10 graft '**Redwing**', V196, in 1963 [this is on the edge of the driveway]
- R6T21-26 *Castanea crenata* X root stock (?)
Cross #8-60, SL R7T7 X WL R15T6
- R6T29-31 *Castanea crenata* X *seguini*
Cross #45-60, SL R7T5 (USDA-PI #78726) X SL R3T8 (USDA-PI #70317)
- R6T35 *Castanea crenata* X *henryi*
Cross #28-60, Early Jap (triangle) X WL R32T1, tall, no stellate hairs,
very good resistance
- R6T37 perox. BB
- R6T41,42,44,45,58,49 *Castanea ashei* X *crenata*
Cross #81-60, West Spring X WL R14T8 (Folk Japanese, Briel, NJ, op),
T45 tall, rest short, flat stellate hairs, short simple hairs, glands, one nut/bur
- R6T52 *Castanea ashei* op
West Spring
- R6T57-58 *Castanea ashei* X *henryi*
Cross #78-60, West Spring X WL R32T1
- R6T65 *Castanea pumila* X *crenata*
Cross #16-60, RdeltaT2 X Early Jap (triangle), [perox. AB]
- R7T13 *Castanea mollissima*
'**Nanking**' V218 graft, April 1963 [tree is on the edge
of the driveway]
- R7T14 *Castanea pumila* X *crenata*
Cross #16-60, RdeltaT2 X Early Jap (triangle)
- R7T15,21,25 *Castanea ozarkensis* X *mollissima*
Cross #50-60, RgammaT3 X SL R1T6 (USDA-PI #70315)

- R7T29-30 *Castanea mollissima* (?) X (*crenata* X *sativa*)
 Cross #41-60, WL R15T6 X HH R3T2 (was M15 from France)
- R7T31 & 33 *Castanea mollissima* (?) X *crenata*
 Cross #7-60, WL R15T6 X SL R7T7
- R7T44,46,47,48 *Castanea ozarkensis* X *ashei*
 Cross #32-60, RgammaT3 X West Spring
- R7T59,61 *Castanea crenata* X *ozarkensis*
 cross #27-60, SL R7T7 X RgammaT3, [perox. BB and AB]
- R8T43 as above
- R8T62 *Castanea ozarkensis* X *crenata*
 Cross #25-60, RalphaT2 X Early Japanese (triangle)
- R9 Hybrids, op

HYBRID SLOPE

North of the Spring Lot on the east side of Chestnut Lane

These trees have a lawn around them, next to swimming pool

south end

R62T43 Cross #83-39 *mollissima* R1T9 X Hammond 99A-33, C X JA
C7

south and east

R61T48 Cross #253-37, *mollissima* 'Mahogany' R1T15 X 'Smith' RBT12, C X JEA
C4

east and north

R59T39 Cross #138A-37 *crenata* MJ R8T6 X Smith RBT12, J X JEA,
C5, 'Toumey'

east

R57T35 Cross #261-38 *C. seguinii* R4T2 X *C. alabamensis*

east

R53T2 *C. mollissima*, Simpson, China, 1941

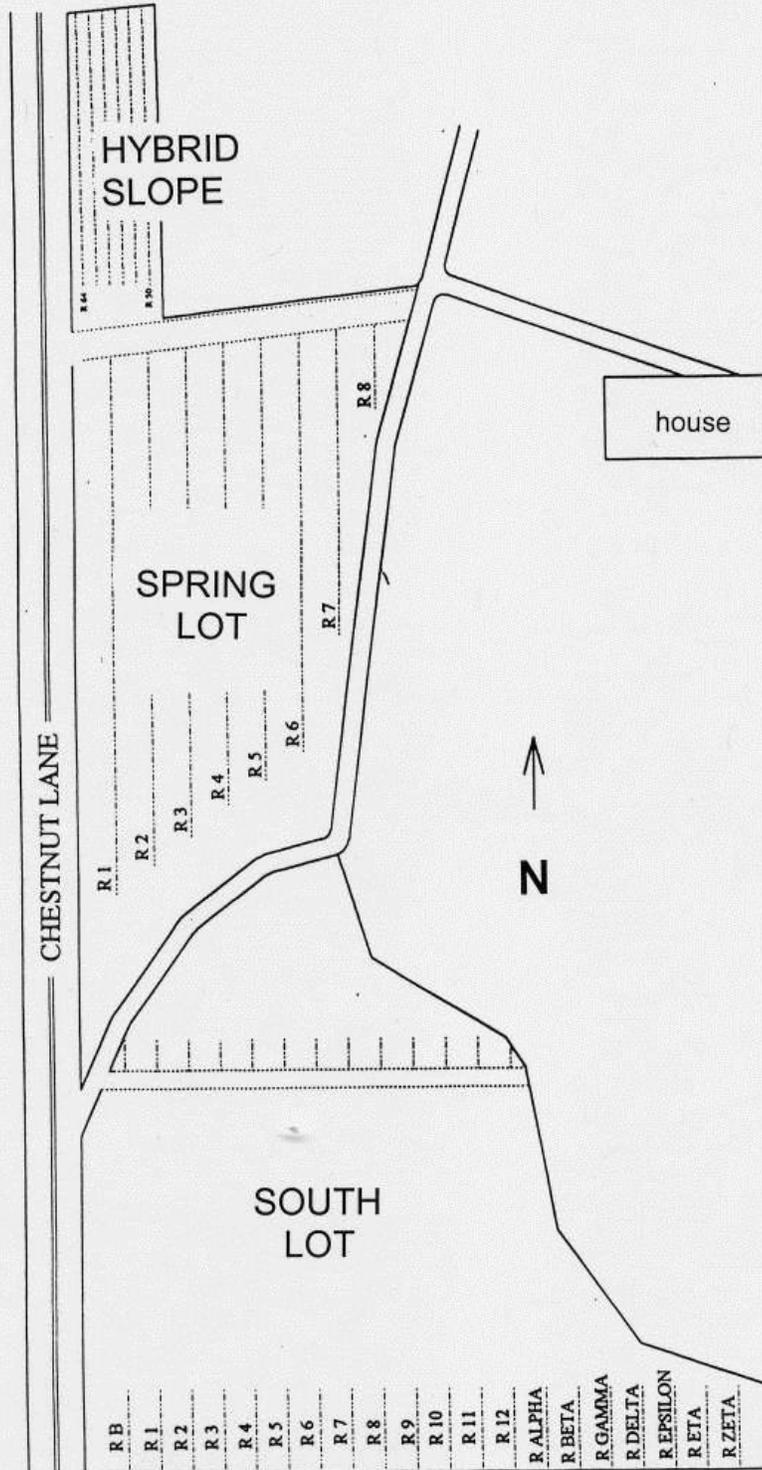
east

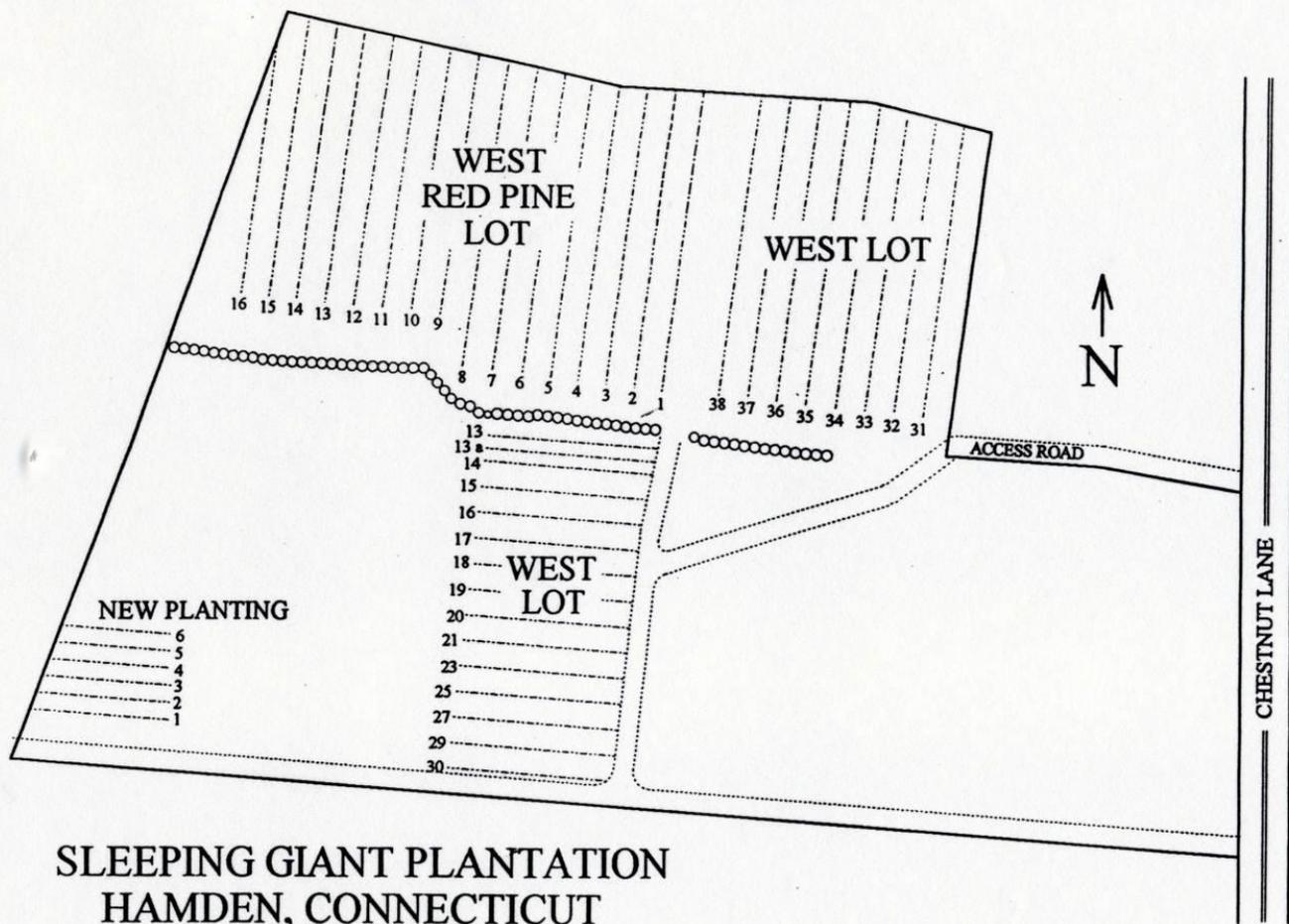
R51T31 Hammond '86 open pollinated, 1940, JEA op, **C6**

east

R50T42 Cross #55-40 *C. mollissima* MI R8T4 (NOT BAGGED) x *dentata*,
 Monroe

The Chestnut Plantation at Sleeping Giant





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HAMDEN, CONNECTICUT**